

# **Knee Wheels**

A device for providing

**Rolling mobility while kneeling**

## **Background of the Invention**

### **Prior Art**

Up until now anyone who has to perform work while kneeling (Framers, finish carpenters, electricians, plumbers, tile setters, floor layers, etc.) has the option of wearing any number of different styles of knee protection to reduce physical stress of the knee. Knee pads do serve to lessen the impact of kneeling and crawling. They also serve to slow the worker and don't address other challenges that face the kneeling worker.

# **Knee Wheels**

A device for providing

**Rolling mobility while kneeling**

## Summary

Through development of **“Knee Wheels”** we have greatly advanced the welfare of the worker.

**“Knee Wheels”** gives the worker the ability to roll quickly and easily from one point to another and reduces physical stress by eliminating the need to be continually standing then kneeling between work points. **“Knee Wheels”** are a specifically designed device for allowing the worker to remain kneeling and still be able to move efficiently from task to task.

The device comprises of specifically shaped deck type means mounted on multiple swivel wheels with extensive knee and shin padding mounted on top side of deck means to allow users a more comfortable efficient means of performing work while kneeling. The deck kneeling profiles are designed to allow the users comfort while working and ease of movement between tasks. Along with an integral front mounted tool tray to carry hand tools and small materials at the proper height where tasks are to be performed.

And finally as an added bonus, **“knee wheels”** can assist with moving tools on and off the jobsite

## **Knee Wheels**

### Detailed Embodiment

#### of the invention

Referring to the drawings and details:

Figure #1 shows a top view of **knee wheels “sportster”** model showing the knee padding (10) shin padding (6) and foot notch (3).

Figure #3 shows a side view of Deck means with swivel wheels mounted to deck underside (2) and knee padding (10) and shin padding (6) mounted on deck top side (1).

**Knee wheels “sportster”** are able to be used for 1 leg only while the other leg is used to push sportster model along, allowing user to remain kneeling. We also recommend a separate knee pad for the pushing leg while stationary.

Figure #2 shows a top view of **Knee Wheel “Ultra-Glide”** model showing two knee pads(5) and shin padding (6), a rear foot notch (11) and the front Tool tray portion (9) of the main deck means.

Figure #4 shows a side view of **Knee wheels “Ultra-Glide”** Deck means with swivel wheels front (7) and swivel wheels rear (8) mounted to Deck underside (2) and knee padding (5) and shin padding (6) mounted to deck top side (1) and tool tray (9) on front (3) of deck means.

Figure #5 (“sportster”) and figure #6 (“Ultra-Glide”) show front view of **Knee wheel** devices showing knee pads (5) on deck top side (1) and swivel wheels on deck underside (2).

## Knee Wheels

### Drawings

Figure #: 1 – Top View Sportster model

2-Top View Ultra-Glide model

3-Side View Sportster model

4-Side View-Ultra-Glide model

5-Front View Sportster model

6-Front View Ultra-Glide model

Item #: 1) Deck top side

2) Deck under side

3) Knee wheel front

4) Knee wheel rear

5) Knee padding (Ultra-Glide model)

6) Shin padding foam

7) Swivel wheel front

8) Swivel wheel rear

9) Tool tray (Ultra-Glide model) portion of deck single

10) Knee padding (sportster model)

11) Foot notch rear

12)

13)Deck right hand side

14)Deck left hand side